

FORM PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. CANNING.001A	APPLICATION NO. 09/676,727
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		APPLICANT Francis X. Canning	
(USE SEVERAL SHEETS IF NECESSARY)		FILING DATE September 29, 2000	GROUP Unknown

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JAN 16 2001

Technology Center 2100


## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)
	1.	5,548,798	08/20/96	King			
	2.	5,615,288	03/25/97	Koshi, et al.			
	3.	5,867,416	02/02/99	Feldmann, et al.			
	4.	6,051,027	04/18/00	Kapur, et al.			
	5.	6,064,808	05/16/00	Kapur, et al.			

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO

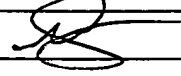
EXAMINER INITIAL	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)	
MRH	1.	Kevin Amaratunga, "A wavelet-Based Approach for Compressing Kemal Data in Large-Scale Simulations of 3D Integral Problems," Computing in Science & Engineering, July/August 2000, pp. 35-45.
MRH	2.	A Brandt, et al., "Multilevel Matrix Multiplication and Fast Solution of Integral Equations," Journal of Computational Physics, 1990, pp. 348-370.
MRH	3.	Francis X. Canning, "The Impedance Matrix Localization (IML) Method for Moment-Method Calculations," IEEE Antennas and Propagation Magazine, Vol. 23, No. 5, October 1990, pp. 18-30.
MRH	4.	Francis X. Canning, "Reducing Moment Method Storage from Order N <sup>2</sup> to Order N," Electronics Letters, Vol. 25, No. 19, September 1989, pp. 1274-1275.
MRH	5.	Francis X. Canning, "Solution of impedance matrix localization form of moment method problems in five iterations," Radio Science, Vol. 30, No. 5, Sept.-Oct. 1995, pp. 1371-1384.
MRH	6.	Francis X. Canning, "Fast Sparse Decomposition of Standard Moment Method Matrices," 1997 North American Radio Science Meeting, Program and Abstracts, July 1997, pp. 68-69.
MRH	7.	Francis X. Canning, "Fast Direct Solution of Standard Moment-Method Matrices," IEEE Antennas & Propagation, Vol. 40, No. 3, June 1998, pp. 15-26.
MRH	8.	Francis X. Canning, "A Fast Moment Method Matrix Solver," 14 <sup>th</sup> Annual Review of Progress in Applied Computational Electromagnetics, March 1998, pp. 449-454.
MRH	9.	L. Greengard, et al., "A Fast Algorithm for Particle Simulations," Journal of Computational Physics, Vol. 73, No. 2, December 1987, pp. 325-348.

EXAMINER		DATE CONSIDERED	08/02/2004
<p>*EXAMINER: INITIAL IF CITATION CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP 609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED, INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.</p>			

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EXAMINER INITIAL	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)	
MEH	10.	Sharad Kapur, et al., "Efficient Full-Wave Simulation in Layered, Lossy Media," Custom Integrated Circuits Conference, May 11-14, 1998.
MEH	11.	Sharad Kapur, et al., "IES <sup>3</sup> : A Fast Integral Equation Solver for Efficient 3-Dimensional Extraction," International Conference on Computer-Aided Design, November 9-13, 1997.
MEH	12.	Sharad Kapur, et al., "Efficient Electrostatic and Electromagnetic Simulation Using IES <sup>3</sup> ," IEEE Journal on Comp. Eng., December, 1998.
MEH	13.	Sharad Kapur, et al., "Efficient Three-Dimensional Extraction Based on Static and Full-Wave Layered Green's Functions," Design Automation Conference, June 16, 1998.
MEH	14.	Sharad Kapur, et al., "High-Order Nyström Schemes for Efficient 3-D Capacitance Extraction," International Conference on Computer-Aided Design, November 8-12, 1998.
MEH	15.	Aram K. Kevorkian, et al., "Sparse Complete Orthogonal Factorization as Applied to Bistatic Target Strength Prediction," DOD High Performance Computing 7th Users Group Conference, June 26, 1997.
MEH	16.	Eric Michielssen, et al., "Multilevel Evaluation of Electromagnetic Fields for the Rapid Solution of Scattering Problems," Microwave and Optical Technology Letters, Vol. 7, No. 17, December 1994, pp. 790-795.
MEH	17.	Eric Michielssen, et al., "A Multilevel Matrix Decomposition Algorithm for Analyzing Scattering from Large Structures," IEEE, Vol. 44, No. 8, August 1996, pp. 1086-1093.
MEH	18.	Eric Michielssen, et al., "Reduced Representation of Matrices Generated by the Method of Moments," IEEE, Vol. 1, No. 94CH3466-0, June 1994, pp. 419-423.
MEH	19.	Douglas M. Photiadis, "The relationship of singular value decomposition to wave-vector filtering in sound radiation problems," J. Acoust. Soc. Am. 88(2), August 1990, pp. 1152-1159.
MEH	20.	Juan M. Rius, et al., "The Multilevel Matrix Decomposition Algorithm in 3-D," Proceedings of the International Conference on Electromagnetics in Advanced Applications, September 1999, pp. 728-732.
MEH	21.	Vladimir Rokhlin, "Sparse Diagonal Forms for Translation Operators for Helmholtz Equation in Two Dimensions," Research Report YALEU/DCS/RR-1095, December 1995.
MEH	22.	V. Rokhlin, "Diagonal Forms of Translation Operators for the Helmholtz Equation in Three Dimensions," Research Report YALEU/DCS/44-894, March 1992.
MEH	23.	Harry A. Schenck, et al., "A hybrid method for predicting the complete scattering function from limited data," J. Acoust. Am. 98(6), December 1995, pp. 3469-3481.
MEH	24.	Robert L. Wagner, "A Ray-Propagation Fast Multipole Algorithm," Microwave and Optical Technology Letter, Vol. 7, No. 10, July 1994, pp. 435-438.

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